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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 31/10/2018

Lab ID	:	**CP-2018-10-08-01**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of drain Doddabettahalli layout in Ward no.03
Agency	:	Sri.Sambashiva Reddy.C, No.14, 6th C cross, 2nd Main, Gopalappa Extension, Manorayanapalya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-20/W.O/21/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-2018
Sample ID No	:	2018-04-21-02 /02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	31/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	03/10/2018	31/10/2018	150.49 X 150.91 X 149.85	22710	8.353	535.3	23.6	23.3
2	Drain Concrete	M20	03/10/2018	31/10/2018	149.90 X 150.03 X 150.22	22490	8.140	515.4	22.9	
3	Drain Concrete	M20	03/10/2018	31/10/2018	149.39 X 150.06 X 151.08	22417	8.133	527.2	23.5	

Note:

The results pertain to the samples received and tested.
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R.RUDRAPRASAD
Authorized Signatory
Technical Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-10-08-01** **Date: 31/10/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of drain Doddabettahalli layout in Ward no.03
Agency	:	Sri.Sambashiva Reddy.C, No.14, 6th C cross, 2nd Main, Gopalappa Extension, Manorayanapalya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-20/W.O/21/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-2018
Sample ID No	:	2018-04-21-02 /02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	03/10/2018	31/10/2018	151.64 X 151.54 X 149.49	22980	8.358	546.9	23.8	23.2
2	Drain Concrete	M20	03/10/2018	31/10/2018	150.14 X 149.87 X 150.66	22500	8.238	504.0	22.4	
3	Drain Concrete	M20	03/10/2018	31/10/2018	151.27 X 150.82 X 149.12	22813	8.235	533.8	23.4	

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2018-10-19-01**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. **Date: 20-10-18**
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of drain Doddabettahalli layout in Ward no.03
Agency	:	Sri.Sambashiva Reddy.C, No.14, 6th C cross, 2nd Main, Gopalappa Extension, Manorayanapalya, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-20/W.O/21/2018-19
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	19-10-18
Sample ID No	:	2018-10-19-01/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	19-10-18

SLno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	501	501
2	Weight of the sample After extraction	B	473	474
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.6	5.4
4	Average percentage	%	5.5	

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Quality Manager

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Lab ID : CP-RW-2018-10-19-01 **Date: 20-10-18**

Sample ID : 2018-10-19-01/01

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 473

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	8	8	1.7	98.3	90-100
9.5	59	67	14.2	85.8	70-88
4.75	133	200	42.3	57.7	53-71
2.36	68	268	56.7	43.3	42-58
1.18	34	302	63.8	36.2	34-48
0.6	23	325	68.7	31.3	26-38
0.3	28	353	74.6	25.4	18-28
0.15	35	388	82.0	18.0	12-20
0.075	65	453	95.8	4.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	13	13	2.7	97.3	90-100
9.5	57	70	14.8	85.2	70-88
4.75	131	201	42.4	57.6	53-71
2.36	67	268	56.5	43.5	42-58
1.18	37	305	64.3	35.7	34-48
0.6	27	332	70.0	30.0	26-38
0.3	25	357	75.3	24.7	18-28
0.15	31	388	81.9	18.1	12-20
0.075	66	454	95.8	4.2	4-10

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-09-29-01** **Date: 30-09-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of drain Doddabettahalli layout in Ward no.03
Agency	:	Sri.Sambashiva Reddy.C, No.14, 6th C cross, 2nd Main, Gopalappa Extension, Manorayanapalya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-20/W.O/21/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-09-18
Sample ID No	:	2018-09-29-01 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	29-09-18

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	19.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	19.0%	Satisfactory	Satisfactory

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-09-29-01 Date: 06-10-18
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of drain Doddabettahalli layout in Ward no.03
Agency	:	Sri.Sambashiva Reddy.C, No.14, 6th C cross, 2nd Main, Gopalappa Extension, Manorayanapalya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-20/W.O/21/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-09-18
Sample ID No	:	2018-09-29-01 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	29-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm2	Not less than 37 N/mm^2

Note:
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-29-01** **Date: 01-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of drain Doddabettahalli layout in Ward no.03
Agency	:	Sri.Sambashiva Reddy.C, No.14, 6th C cross, 2nd Main, Gopalappa Extension, Manorayanapalya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-20/W.O/21/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	29-09-18
Sample ID No	:	2018-09-29-01 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	29-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7254	7468	49.8	50.2	30-70
4	10 ಮಿಮೀ	4442	11910	79.4	20.6	10-35
5	4.75 mm	2685	14595	97.3	2.7	0-5
6	Pan ಪಾನ್	405	15000	100.0	0	---

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2018-09-29-01 Date: 01-10-18
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of drain Doddabettahalli layout in Ward no.03
Agency	:	Sri.Sambashiva Reddy.C, No.14, 6th C cross, 2nd Main, Gopalappa Extension, Manorayanapalya, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-20/W.O/21/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-09-18
Sample ID No	:	2018-09-29-01 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	29-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	237	237	4.7	95.3	90-100
3	10 mm	2544	2781	55.6	44.4	25-55
4	4.75 mm	2107	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	_

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2018-09-29-01 **Date: 01-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of drain Doddabettahalli layout in Ward no.03
Agency	:	Sri.Sambashiva Reddy.C, No.14, 6th C cross, 2nd Main, Gopalappa Extension, Manorayanapalya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-20/W.O/21/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-09-18
Sample ID No	:	2018-09-29-01 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	29-09-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	188	220	22.0	78.0	60-95	75-100	85-100	95-100
4	1.18 mm	195	415	41.5	58.5	30-70	55-90	75-100	90-100
5	600 micron	219	634	63.4	36.6	15-34	35-59	60-79	80-100
6	300 micron	193	827	82.7	17.3	5-20	8-30	12-40	15-50
7	150 micron	121	948	94.8	5.2	0-10	0-10	0-10	0-15
8	Pan	52	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-08-01 **Date: 10/10/2018**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements of drain Doddabettahalli layout in Ward no.03

Agency : Sri.Sambashiva Reddy.C, No.14, 6th C cross, 2nd Main, Gopalappa Extension, Manorayanapalya, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-20/W.O/21/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-04-18

Sample ID No : 2018-04-21-02 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	03/10/2018	10/10/2018	151.73 X 149.00 X 150.19	22608	8.206	408.9	18.1	18.4
2	Drain Concrete	M20	03/10/2018	10/10/2018	151.29 X 150.84 X 149.31	22821	8.416	433.5	19.0	
3	Drain Concrete	M20	03/10/2018	10/10/2018	150.01 X 151.67 X 150.30	22752	8.217	415.2	18.2	

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/10/2018

Lab ID	:	**CP-2018-10-08-01**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of drain Doddabettahalli layout in Ward no.03
Agency	:	Sri.Sambashiva Reddy.C, No.14, 6th C cross, 2nd Main, Gopalappa Extension, Manorayanapalya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-20/W.O/21/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-18
Sample ID No	:	2018-04-21-02 /02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	03/10/2018	10/10/2018	150.66 X 151.48 X 150.44	22822	8.154	399.4	17.5	17.6
2	Drain Concrete	M20	03/10/2018	10/10/2018	150.69 X 150.47 X 150.99	22674	8.198	410.4	18.1	
3	Drain Concrete	M20	03/10/2018	10/10/2018	150.49 X 150.66 X 150.95	22673	8.198	392.2	17.3	

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GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-2018-10-05-01** **Date: 06-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of drain Doddabettahalli layout in Ward no.03
Agency	:	Sri.Sambashiva Reddy.C, No.14, 6th C cross, 2nd Main, Gopalappa Extension, Manorayanapalya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-20/W.O/21/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-10-18
Sample ID No	:	2018-10-05-01/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	05-10-18

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	66	60 to 70
2	Softening Point, °C	49.8	Min. 40°C
3	Ductility, cm	94	Min. 75cm
4	Flash point, °C	253	Min. 220°C
	Fire point, °C	270	

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	CP-RW-2018-10-03-01	**Date: 05-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements of drain Doddabettahalli layout in Ward no.03	
Agency	:	Sri.Sambashiva Reddy.C, No.14, 6th C cross, 2nd Main, Gopalappa Extension, Manorayanapalya, Bangalore.	
Customer Reference	:	EE(YNK.D)E-PMT-20/W.O/21/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	03-10-18	
Sample ID No	:	2018-10-03-01/01	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	03-10-18	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	291.4	291.8
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	71.9	73.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	219.0	218.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.6
5	Aggregate impact value	(B/A)*100	24.7	25.1
6	Aggregate impact value (Mean of two tests)	Percentage	24.9	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Date: 05-10-18

Lab ID	:	CP-RW-2018-10-03-01
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of drain Doddabettahalli layout in Ward no.03
Agency	:	Sri.Sambashiva Reddy.C, No.14, 6th C cross, 2nd Main, Gopalappa Extension, Manorayanapalya, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-20/W.O/21/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-10-18
Sample ID No	:	2018-10-03-01/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	03-10-18

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.9%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.2%	
Combined Flakiness and Elongation Index for WMM	23.1%	

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-10-03-01** **Date: 05-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of drain Doddabettahalli layout in Ward no.03
Agency	:	Sri.Sambashiva Reddy.C, No.14, 6th C cross, 2nd Main, Gopalappa Extension, Manorayanapalya, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-20/W.O/21/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-10-18
Sample ID No	:	2018-10-03-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	03-10-18
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	299	299	2.7	97.3	95-100
22.4	2147	2446	22.2	77.8	60-80
11.2	2711	5157	46.9	53.1	40-60
4.75	2517	7674	69.8	30.2	25-40
2.36	1278	8952	81.4	18.6	15-30
0.6	598	9550	86.8	13.2	8-22
0.075	1055	10605	96.4	3.6	0-5

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2018-10-08-02** **Date: 11-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of drain Doddabettahalli layout in Ward no.03
Agency	:	Sri.Sambashiva Reddy.C, No.14, 6th C cross, 2nd Main, Gopalappa Extension, Manorayanapalya, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-20/W.O/21/2018-19
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	08-10-18
Sample ID No	:	2018-10-08-02/01
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of test	:	08-10-18

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.24	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.33	3.87	2-4
3	Percent air Voids	4.64	4.37	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.37	14.16	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.38	70.28	65-75
6	Density, g/cc	2.44	2.42	–

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	CP-RW-2018-10-08-02 Date: 11-10-18
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of drain Doddabettahalli layout in Ward no.03
Agency	:	Sri.Sambashiva Reddy.C, No.14, 6th C cross, 2nd Main, Gopalappa Extension, Manorayanapalya, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-20/W.O/21/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-10-18
Sample ID No	:	2018-10-08-02/01
Type of Mix	:	DBM(Dense Bitumnous Macadam)
Date of test	:	08-10-18

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	97.5	2.5	97.7	Minimum Retained Coating 95%
2	98.5	1.5		
3	97.0	3.0		

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM (IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-10-16-01**	**Date: 17-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements of drain Doddabettahalli layout in Ward no.03	
Agency	:	Sri.Sambashiva Reddy.C, No.14, 6th C cross, 2nd Main, Gopalappa Extension, Manorayanapalya, Bangalore.	
Customer Reference	:	EE(YNK.D)E-PMT-20/W.O/21/2018-19	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	16-10-18	
Sample ID No	:	2018-10-16-02/01	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of test	:	16-10-18	

SLno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	478	479
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.4	4.2
4	Average percentage	%	4.3	

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Lab ID : CP-RW-2018-10-16-01 **Date: 17-10-18**

Sample ID No : 2018-10-16-02/01

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 478

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	47	47	9.8	90.2	71-95
13.2	56	103	21.4	78.6	56-80
4.75	187	289	60.5	39.5	38-54
2.36	25	314	65.6	34.4	28-42
0.3	88	402	84.0	16.0	7-21
0.075	53	454	95.0	5.0	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 479

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	45	45	9.4	90.6	71-95
13.2	53	98	20.4	79.6	56-80
4.75	185	283	59.0	41.0	38-54
2.36	25	308	64.2	35.8	28-42
0.3	78	386	80.5	19.5	7-21
0.075	71	456	95.2	4.8	2-8

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2018-10-11-01** **Date: 15-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of drain Doddabettahalli layout in Ward no.03
Agency	:	Sri.Sambashiva Reddy.C, No.14, 6th C cross, 2nd Main, Gopalappa Extension, Manorayanapalya, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-20/W.O/21/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-10-18
Sample ID No	:	2018-10-11-01/01
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	11-10-18

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-S
1	98.5	1.5	98.2	Minimum Retained Coating 95%
2	98.0	2.0		
3	98.0	2.0		

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2018-10-11-01** **Date: 15-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of drain Doddabettahalli layout in Ward no.03
Agency	:	Sri.Sambashiva Reddy.C, No.14, 6th C cross, 2nd Main, Gopalappa Extension, Manorayanapalya, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-20/W.O/21/2018-19
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	11-10-18
Sample ID No	:	2018-10-11-01/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	11-10-18

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.35	11.56	10KN(min)
2	Marshal flow at 60°C, mm	3.37	3.32	2-4
3	Percent air Voids	4.26	4.37	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.61	14.36	13-15
5	Percent Voids filled with Bitumen(VFB %)	70.37	71.36	65-75
6	Density, g/cc	2.26	2.24	–

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